Nonparametric UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	7/31/2013 9:57:11 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
mber of Bootstrap Operations	2000

Aroclor

General Statistics

Total Number of Observations	64	Number of Distinct Observations	51
Number of Detects	22	Number of Non-Detects	42
Number of Distinct Detects	21	Number of Distinct Non-Detects	30
Minimum Detect	4.95	Minimum Non-Detect	1.3
Maximum Detect	53.45	Maximum Non-Detect	18
Variance Detects	185.5	Percent Non-Detects	65.63%
Mean Detects	14.96	SD Detects	13.62
Median Detects	8.253	CV Detects	0.911
Skewness Detects	1.745	Kurtosis Detects	2.167
Mean of Logged Detects	2.413	SD of Logged Detects	0.725

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	6.574	Standard Error of Mean	1.304
SD	10.03	95% KM (BCA) UCL	8.738
95% KM (t) UCL	8.751	95% KM (Percentile Bootstrap) UCL	8.754
95% KM (z) UCL	8.719	95% KM Bootstrap t UCL	9.503
90% KM Chebyshev UCL	10.49	95% KM Chebyshev UCL	12.26
97.5% KM Chebyshev UCL	14.72	99% KM Chebyshev UCL	19.55

Suggested UCL to Use

95% KM (t) UCL	8.751	95% KM (% Bootstrap) UCL	8.754

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
owever, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statisticia